FIG.1

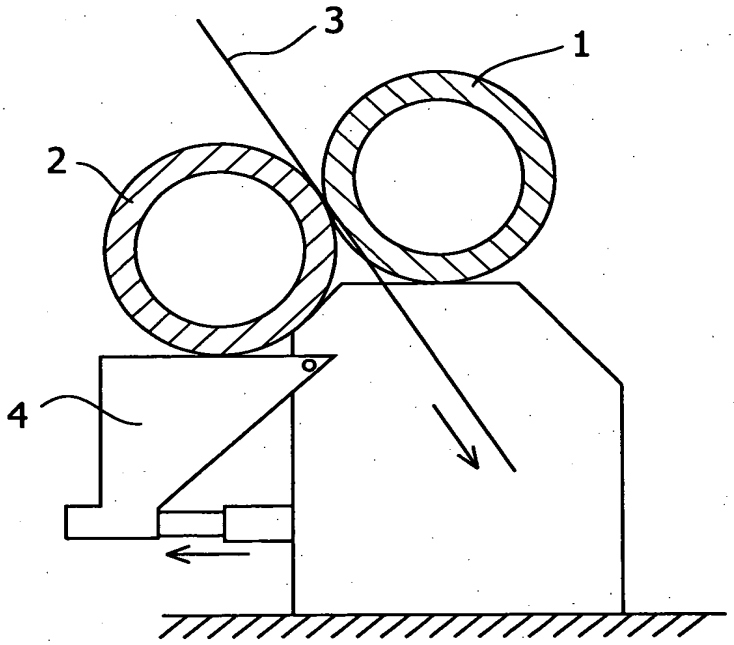


FIG.2

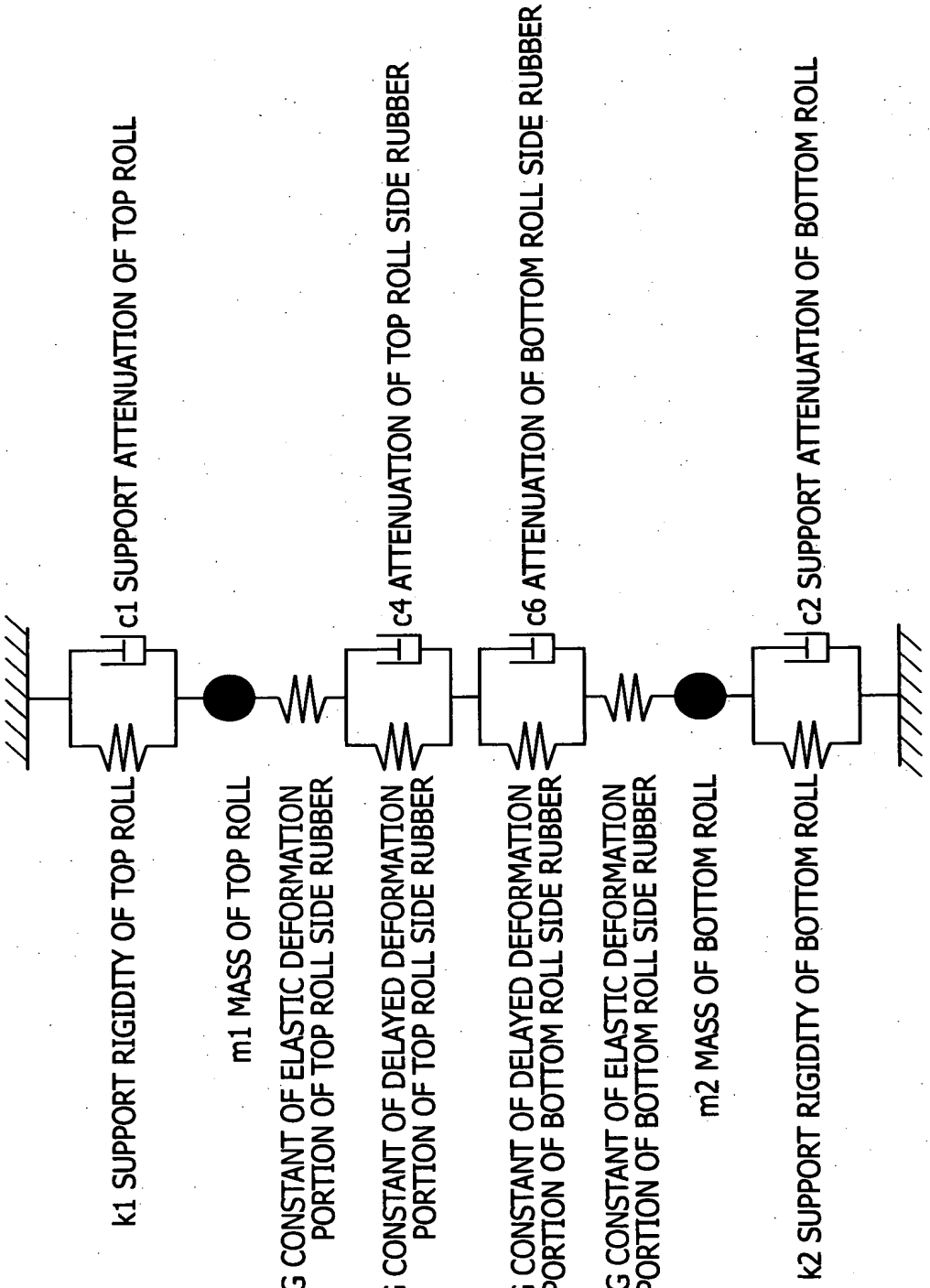

c1 SUPPORT ATTENUATION OF TOP ROLL
k1 SUPPORT RIGIDITY OF TOP ROLL
m1 MASS OF TOP ROLL
k3 SPRING CONSTANT OF ELASTIC DEFORMATION PORTION OF TOP ROLL SIDE RUBBER
c4 ATTENUATION OF TOP ROLL SIDE RUBBER
k4 SPRING CONSTANT OF DELAYED DEFORMATION PORTION OF TOP ROLL SIDE RUBBER
c6 ATTENUATION OF BOTTOM ROLL SIDE RUBBER
k6 SPRING CONSTANT OF DELAYED DEFORMATION PORTION OF BOTTOM ROLL SIDE RUBBER
k5 SPRING CONSTANT OF ELASTIC DEFORMATION PORTION OF BOTTOM ROLL SIDE RUBBER
m2 MASS OF BOTTOM ROLL
c2 SUPPORT ATTENUATION OF BOTTOM ROLL
k2 SUPPORT RIGIDITY OF BOTTOM ROLL

FIG.3

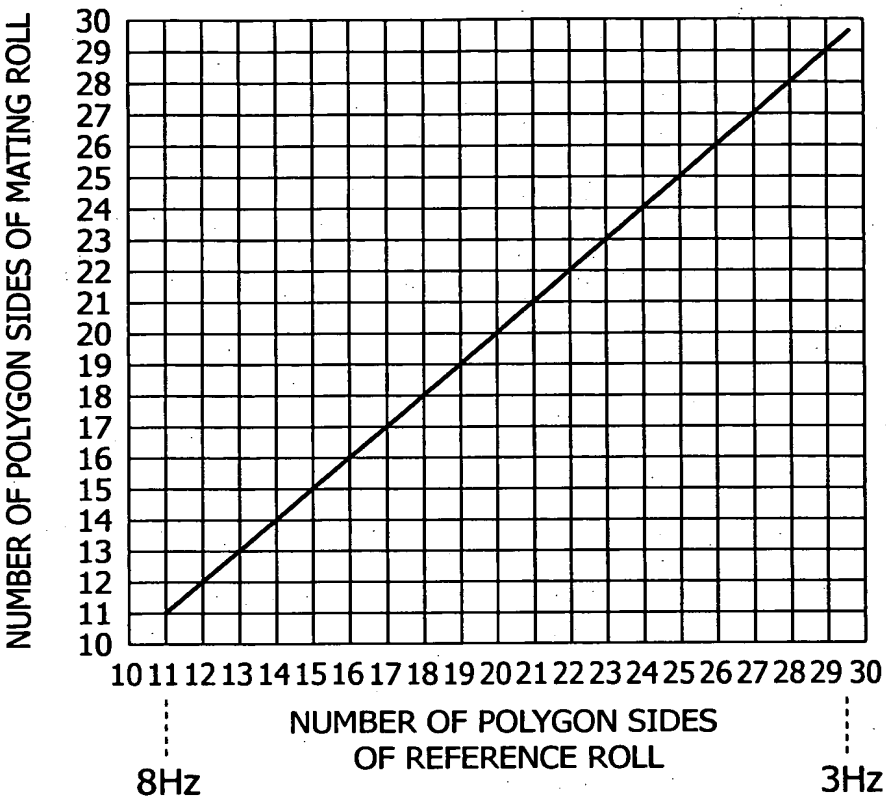

NUMBER OF POLYGON SIDES OF MATING ROLL
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
NUMBER OF POLYGON SIDES
OF REFERENCE ROLL
8Hz
3Hz

FIG.4

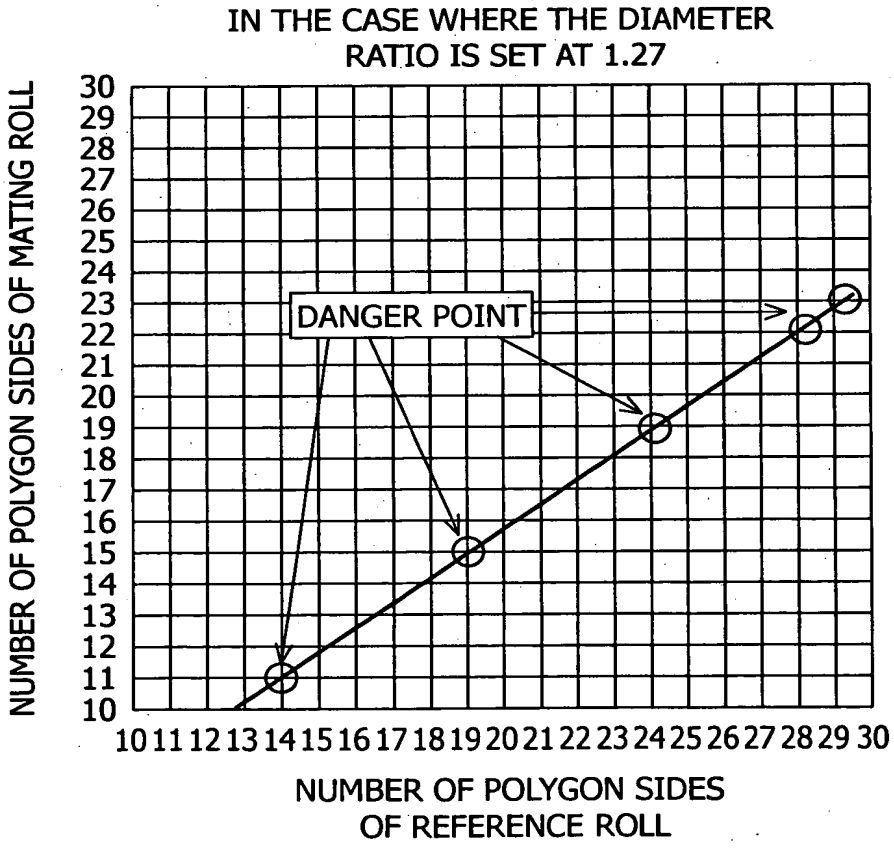

IN THE CASE WHERE THE DIAMETER
RATIO IS SET AT 1.27
NUMBER OF POLYGON SIDES OF MATING ROLL
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
DANGER POINT
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
NUMBER OF POLYGON SIDES
OF REFERENCE ROLL

FIG.5

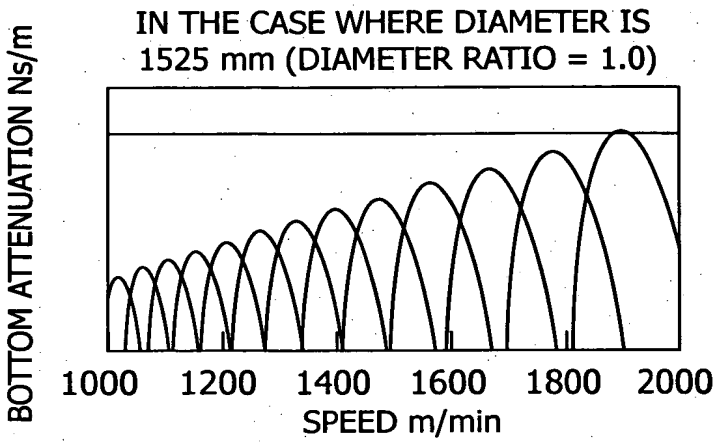


FIG.6

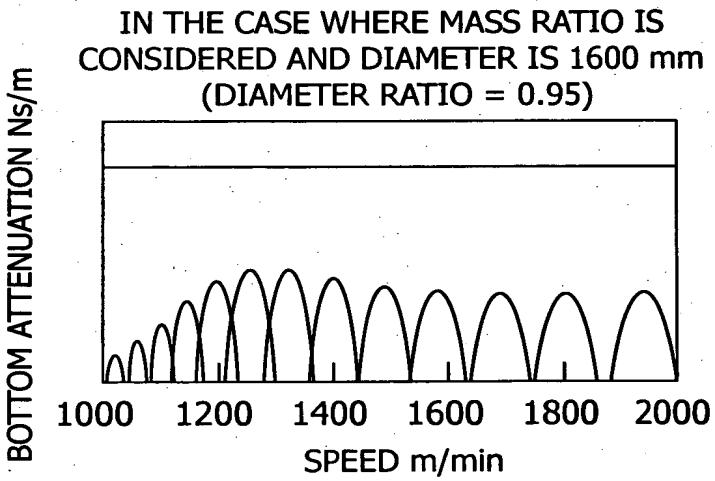


FIG.7

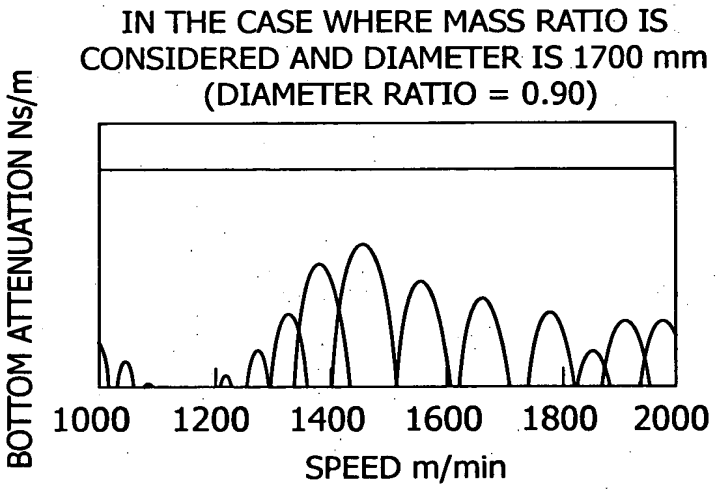


FIG.8

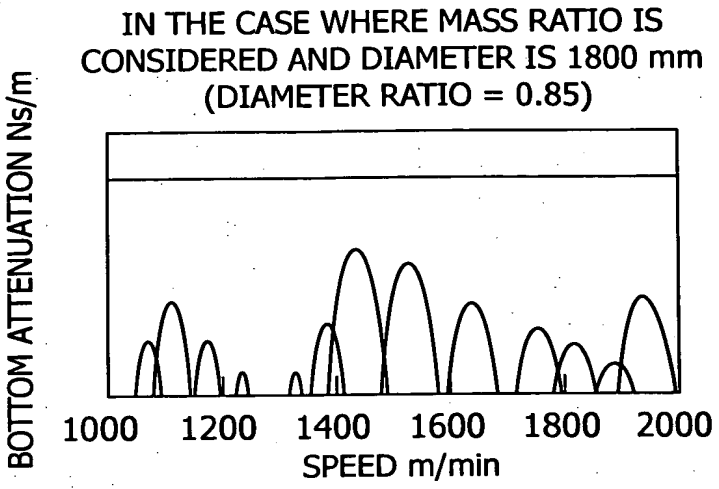


FIG.9

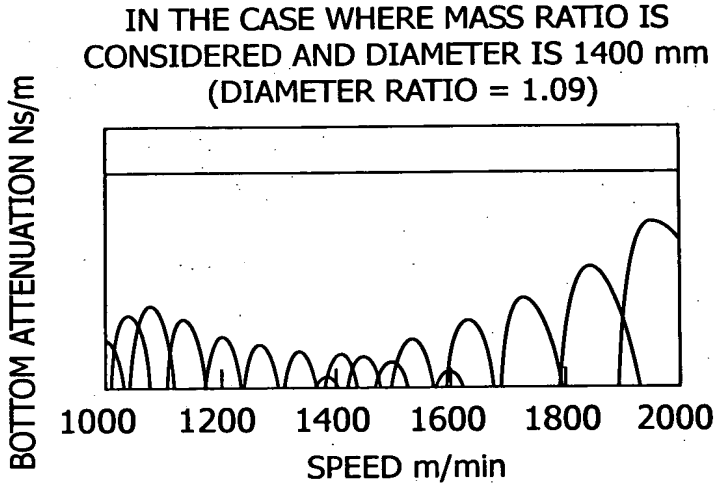


FIG.10

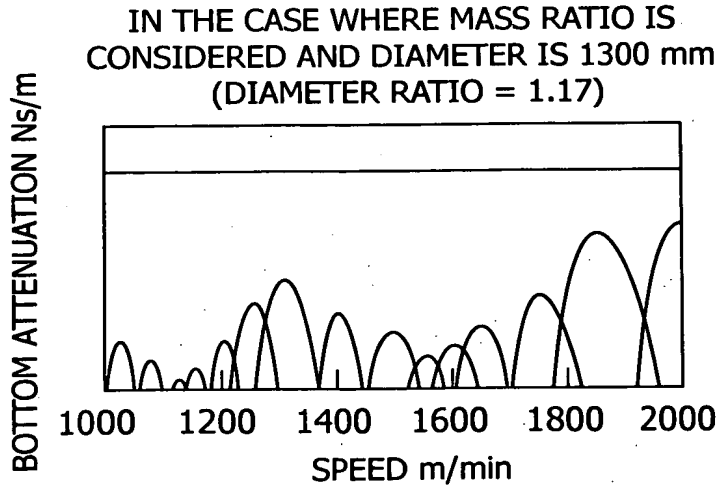


FIG.11

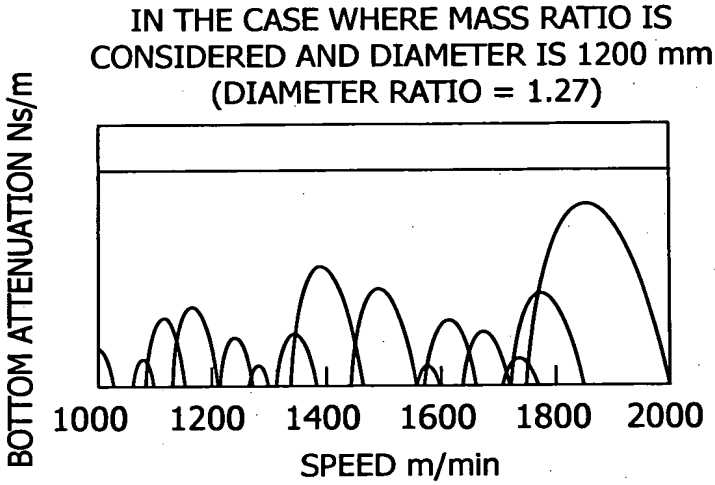
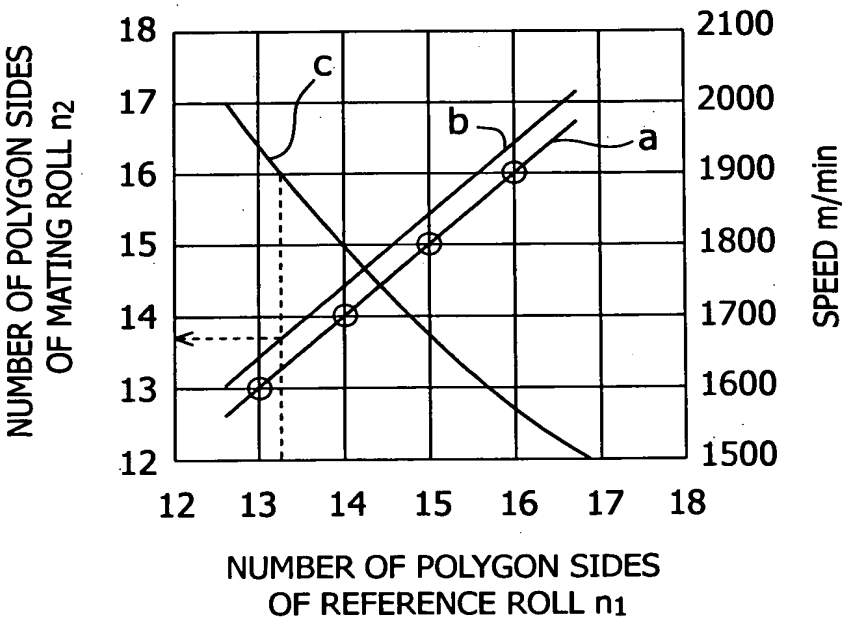

IN THE CASE WHERE MASS RATIO IS CONSIDERED AND DIAMETER IS 1200 mm (DIAMETER RATIO = 1.27)
BOTTOM ATTENUATION Ns/m
1000
1200
1400
1600
1800
2000
SPEED m/min

FIG.12


NUMBER OF POLYGON SIDES OF MATING ROLL n2
18
17
16
15
14
13
12
c
b
a
2100
2000
1900
1800
1700
1600
1500
SPEED m/min
12
13
14
15
16
17
18
NUMBER OF POLYGON SIDES OF REFERENCE ROLL n1